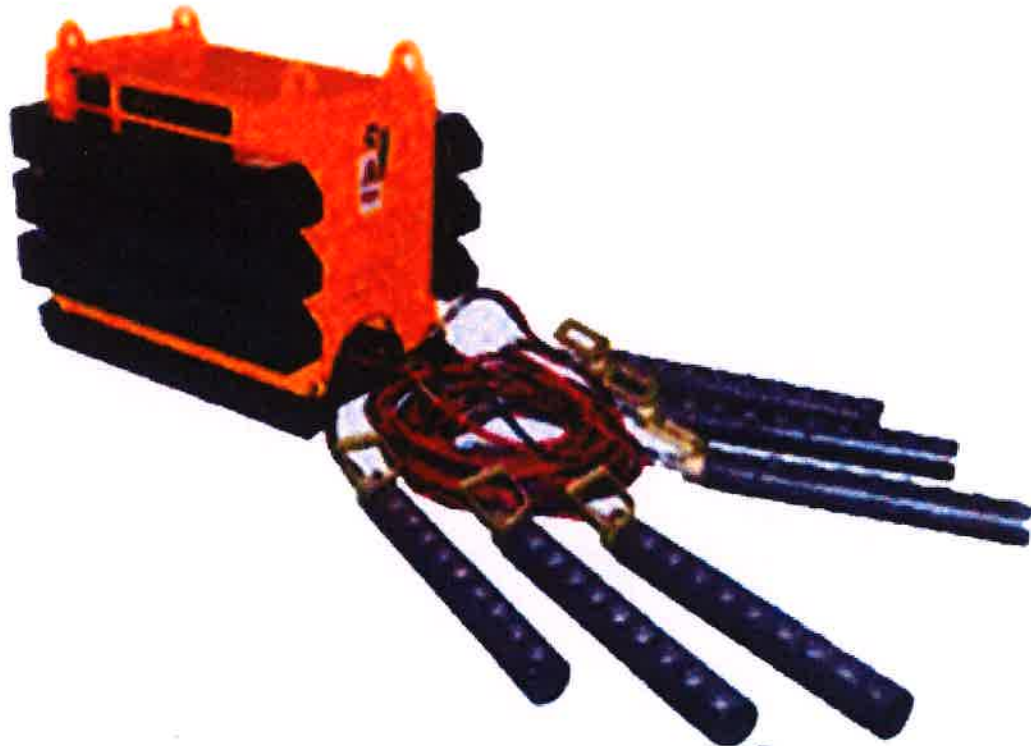
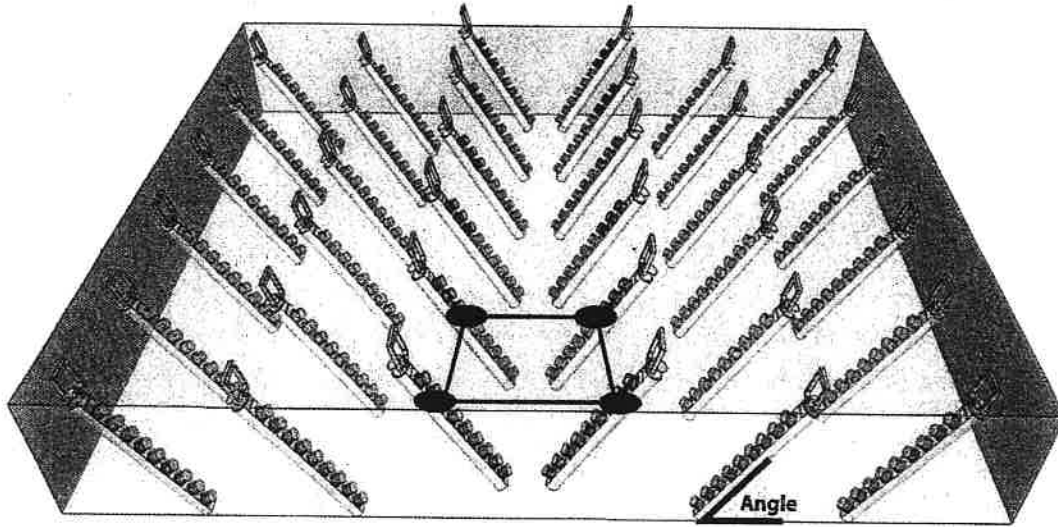


HWACHEON HRD-TEC

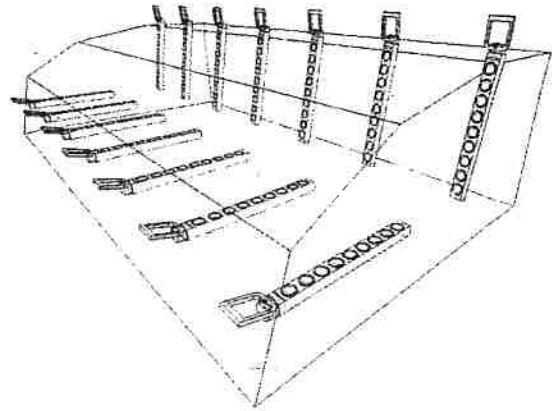
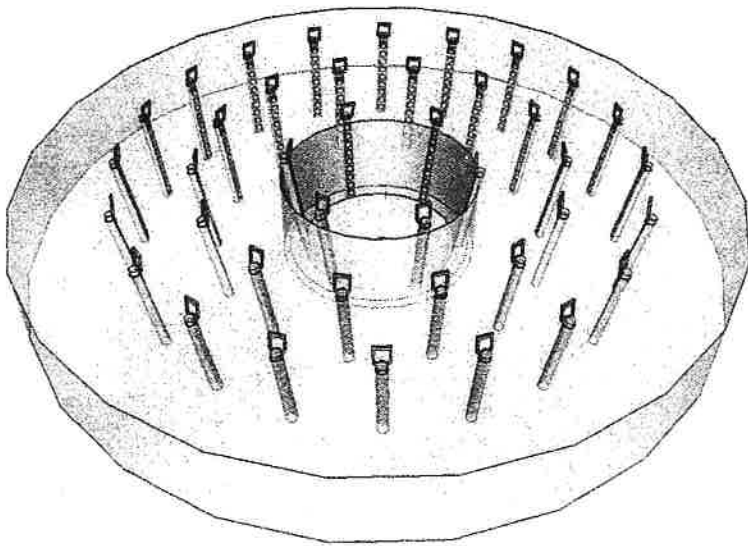
Hydraulic Rock Splitter
UP TO SIX SPLITTERS WORKING TOGETHER



Walter S. Pratt & Sons, Inc
317 Columbia St.
Rensselaer, NY 12144
1-800-613-4738
RENTAL - SALES - SERVICE



- ※ Every holes distance different from rocks type. ※ Make holes to be formed 15~30° angle against surface.
- | | |
|-------------|------------------|
| Soft rock | : 24 - 32 Inches |
| Normal rock | : 16 - 24 Inches |
| Hard rock | : 10 - 16 Inches |



HRD www.hrd-tech.com **ROCK SPLITTER**

#516, Seoheung Techno Valley,
731-4, Wonsi-dong, Danwon-gu,
Ansan-si, Gyeonggi-do, Korea
TEL. : +82-31-432-7832
FAX. : +82-31-497-7852

DO

- Wear safety glasses
- Wear safety gloves
- Wear Steel toe safety shoes
- Stay at least 20 feet away from hydraulic hoses when under pressure.
- Change hydraulic hoses and fittings if they are cut or leak with proper pressure spec hose and fitting and use extreme care not to allow any foreign material into the hose or fitting.
- Always face splitter pistons toward the free face of the excavation.
- Insert splitters fully into drilled holes.
- Use the proper electric power from the hydraulic pump motor to generator or electric source. (230 VT, Single Phase, 50 Amps)
- Check Hydraulic Oil level each day before starting to make sure it is full with the proper #32 hydraulic oil.

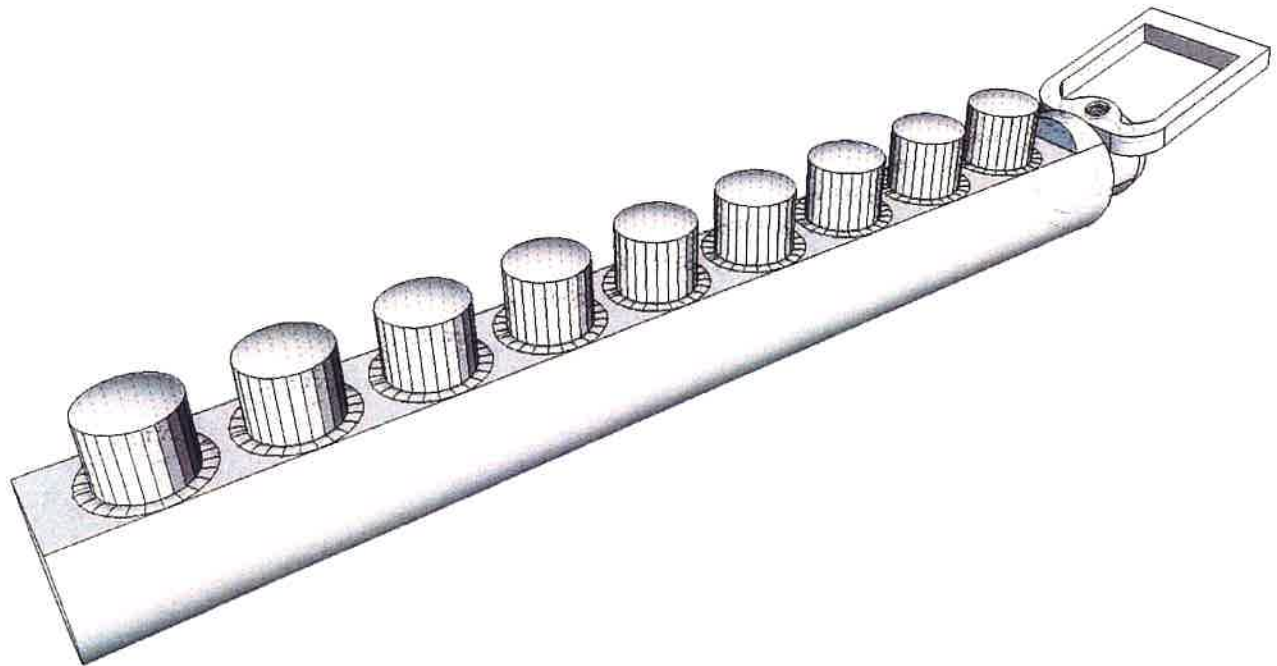
DO NOT

- DO NOT Keep the hydraulic pump in high pressure position after the rock has been broken. (You could take out the Pressure Pump.)
- DO NOT Keep the hydraulic pump in low pressure position after the pistons have been retracted back in the cylinder. You could take out the pressure pump.)
- **DO NOT** Touch the hydraulic hoses that are under pressure.
- **DO NOT** Raise the pressure on the hydraulic pump.
- **DO NOT** Place the electric hydraulic pump in or near water.
- **DO NOT** Lift or drag splitter cylinder by the hydraulic hoses.
- **DO NOT** Run over hydraulic cylinder or pressure hoses.
- **DO NOT** Kink the hydraulic hose.
- **DO NOT** Hit the splitter cylinder with sledge hammer to break it loose from broken rock.
- **DO NOT** Run only one cylinder at a time (minimum of 2 rock splitter cylinders)
- **DO NOT** Remove the cylinder handle, to allow it to slip down the hole

HRD www.hrd-tech.com
ROCK SPLITTER

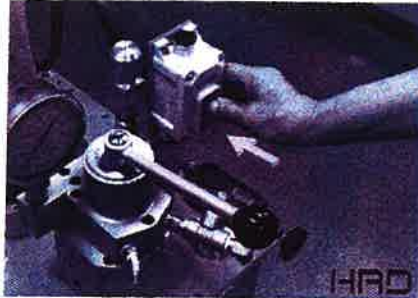
Application Notes

*The resistance of concrete and rock to
a force applied internally
is only about 10% of their resistance to
a force applied externally.*





1. Insert splitting rods into holes.



2. Push power "ON" button. Then motor is running.



3. Turn a control lever from the middle to the left(HIGH).

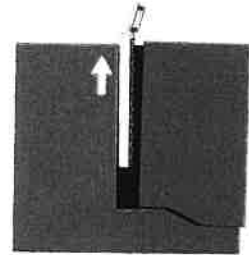


4. Until hydraulic pressure gauge indicates 1,200kgf/cm², pressure is rising and falling. It takes about 45seconds ~3minutes depending on rock type. Then motor stops automatically.



5. After that, for pistons going down, turn a control lever to the right(LOW).

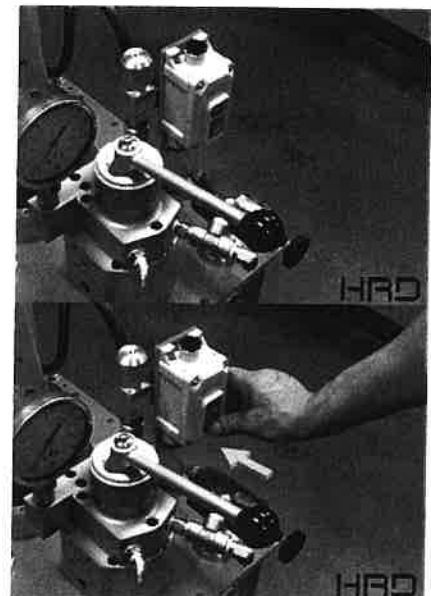
6. When pressure gauge indicate 0. Pull splitting rod out from the hole.
And insert it into another hole.



7. Repeat these process for breaking rocks.



8. Set a control lever in the middle and push the stop button to stop operating it.



GUIDELINES...

...for Working with Ultra High-Pressure Hydraulic Tools

Working with ultra high-pressure hydraulics is a serious task. Sometimes work has to be done in extremely confined spaces and involves heavy machine parts that need to be dismantled for repair. Other times the environment might be a challenge due to remote areas as mountain tops or out at sea where conditions are tough, like in wind power turbine installations.

Over the years this has led to a demand for smaller and lighter tools in order to simplify the tasks. Smaller tools need higher pressure to generate the power required to perform the heavy task of loosening or tightening bolts. Extreme pressure demands a high level of safety as a leak or accidental disconnection could cause serious personal injury or damage to machinery. This is especially important at a time when copies of couplings and hoses are circulating on the market.

CEJN has more than **40 years of experience** in the ultra high-pressure hydraulics business and safety is one of our top priorities. This guide has been produced by CEJN to create awareness about this powerful media and to help people work as safely as possible.





Never try to locate a leak with your hands!

IMPORTANT

IF LEAKAGE OCCURS

If leakage occurs, shut down machinery immediately. **Never try to locate the leak with your hands** or any other part of the body when the hose set is pressurised. Use a suitable implement to inspect the hose for damage.



FLUID INJECTION INJURY

If a fluid injection injury occurs, it must always be treated as a **medical emergency** that requires prompt and accurate diagnosis and treatment.



“It felt like a bee-sting. Two days later my right arm was amputated”

Victim of Oil leakage